LibreOffice and SUSE ...

LibreOffice The Document Foundation



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"Stand at the crossroads and look; ask for the ancient paths, ask where the good way is, and walk in it, and you will find rest for your souls..." -Jeremiah 6:16



Overview & disclaimer ...

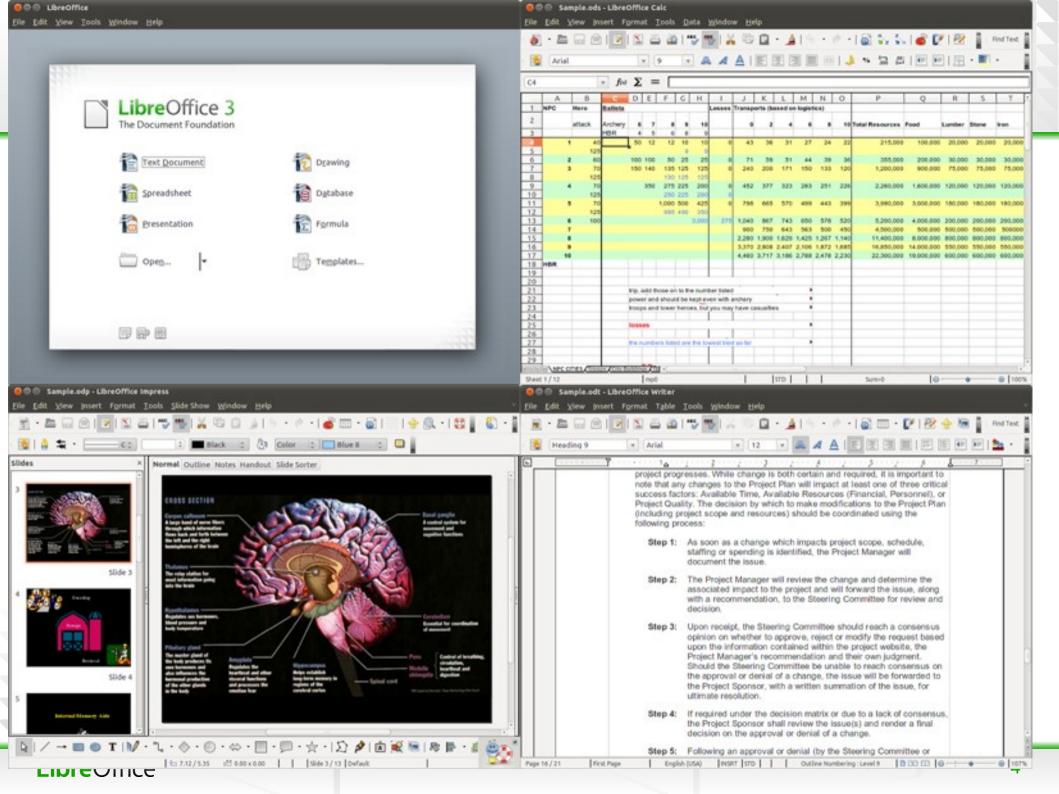
I am not speaking for the Document Foundation

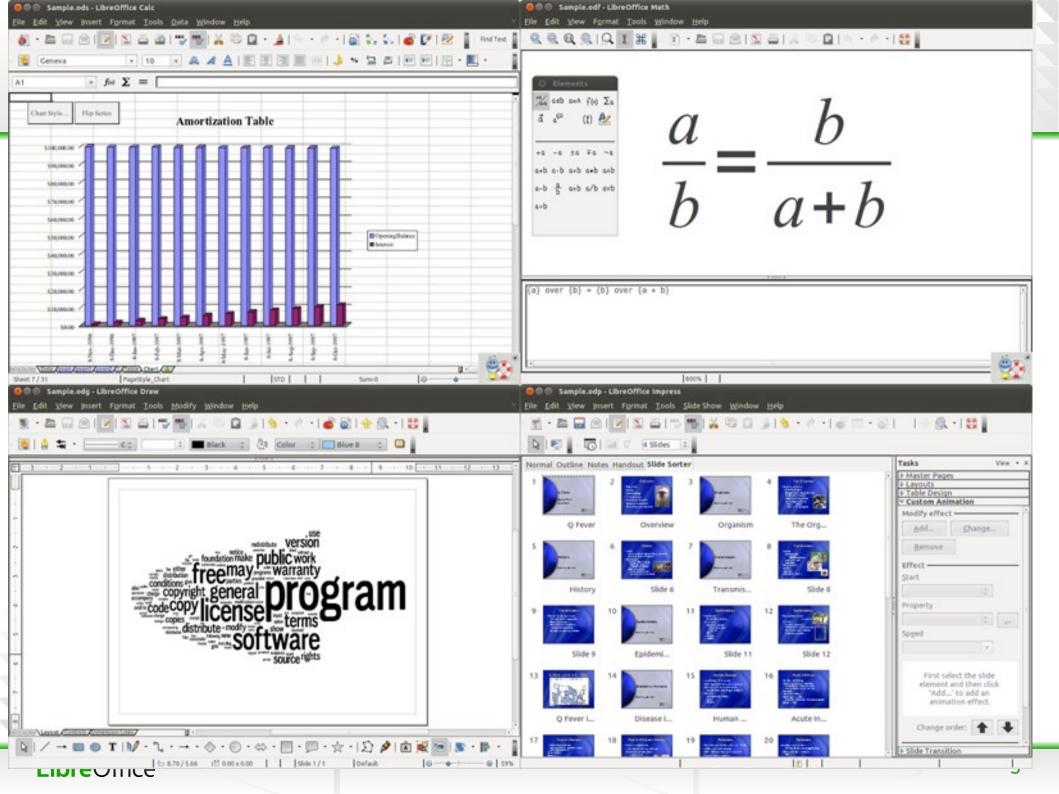
- These views are mine, but you're welcome to borrow them.
- LibreOffice is better, and fun too
 - What / why / distinctives of LibreOffice
 - Progress so far
- LibreOffice needs your help
 - and/or ways to get involved
- The future 3.5 and now ...
- Conclusions



What / Why of LibreOffice







What is LibreOffice / The Document Foundation

Finally "doing it right"

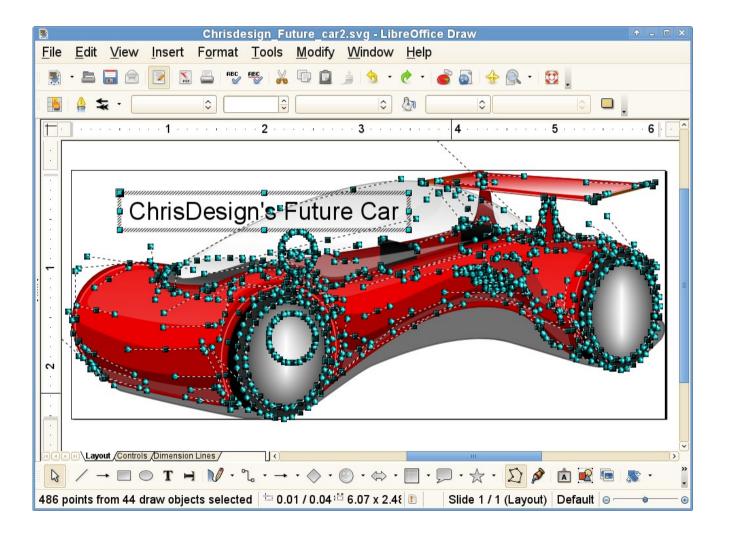
- a real Free Software / hackers project
 - FreeDesktop, LGPLv3+/MPL for new code
- we warmly welcome new contributors

Aim to create

- a beautiful, Office suite we can be proud of, not ashamed of ...
- Ships now on Windows, Mac, GNU / Linux, *BSD etc.
 with some incremental features ...

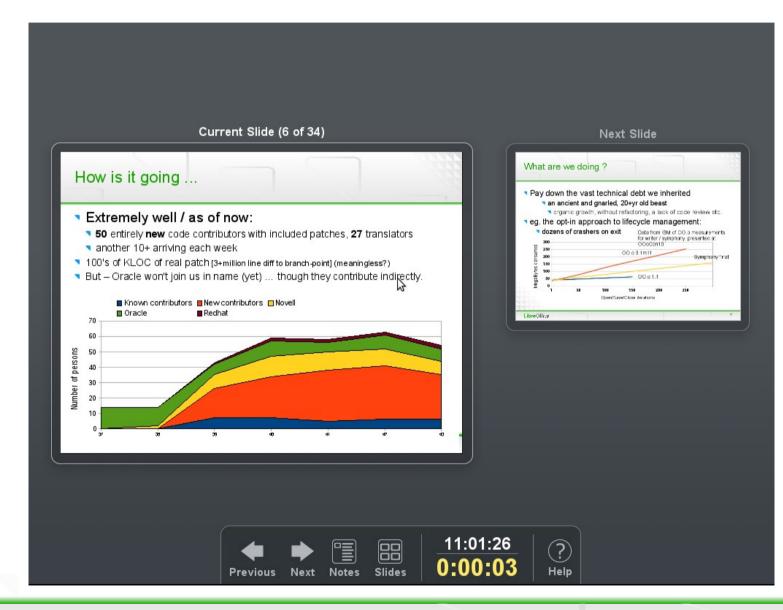
Features, distinctive to LibreOffice ...

Or: why should I choose LibreOffice ?



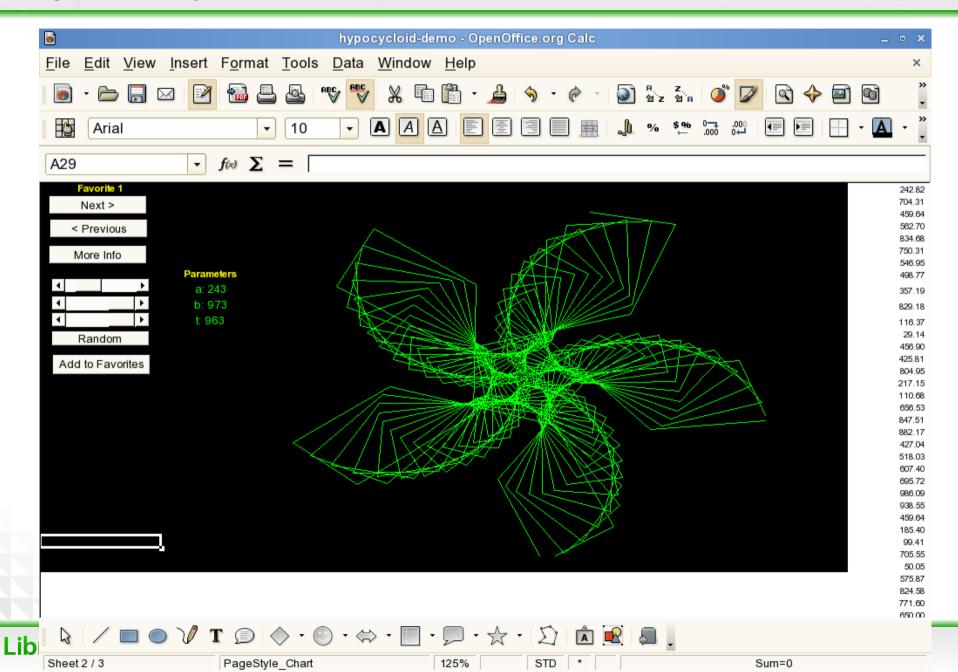
Features, distinctive to LibreOffice ... #2

Bundling existing, useful extensions – instead of burying them ...



Features, distinctive to LibreOffice ...

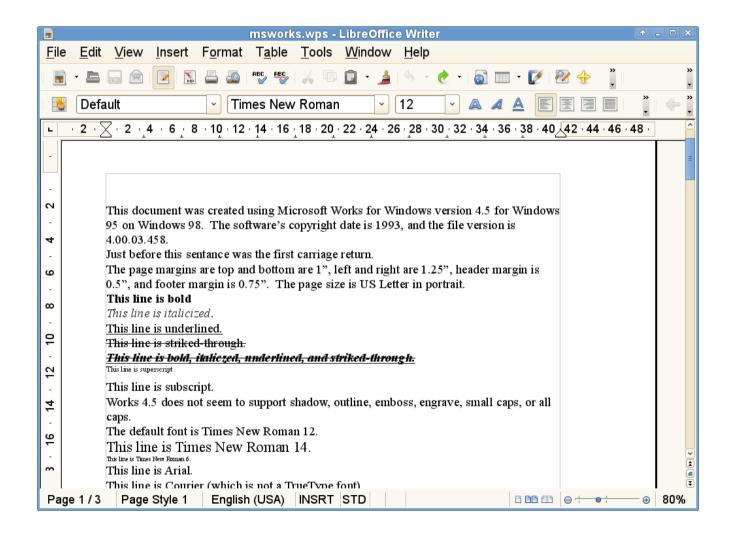
Migration – sadly much of the corporate world is infected with VBA ...



9

Copy-left Features, distinctive to LibreOffice ...

Import your legacy Microsoft Works files – and move to ODF ...



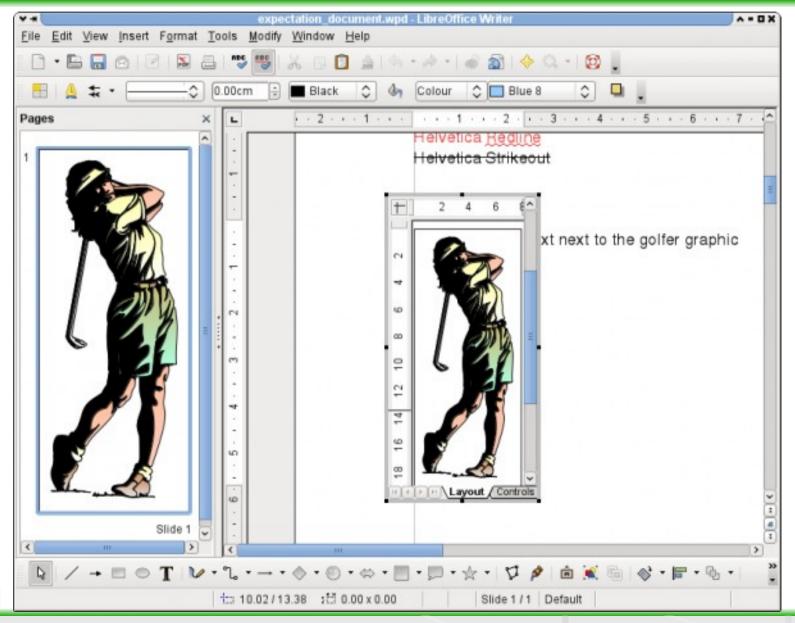
Features, distinctive to LibreOffice ... (for now)

Import your legacy Lotus Word Pro files – and move to ODF ...

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Copy-left Features, distinctive to LibreOffice ...

Import much more of your legacy Wordperfect files – and move to ODF ...



New Features, distinctive to LibreOffice ... #?

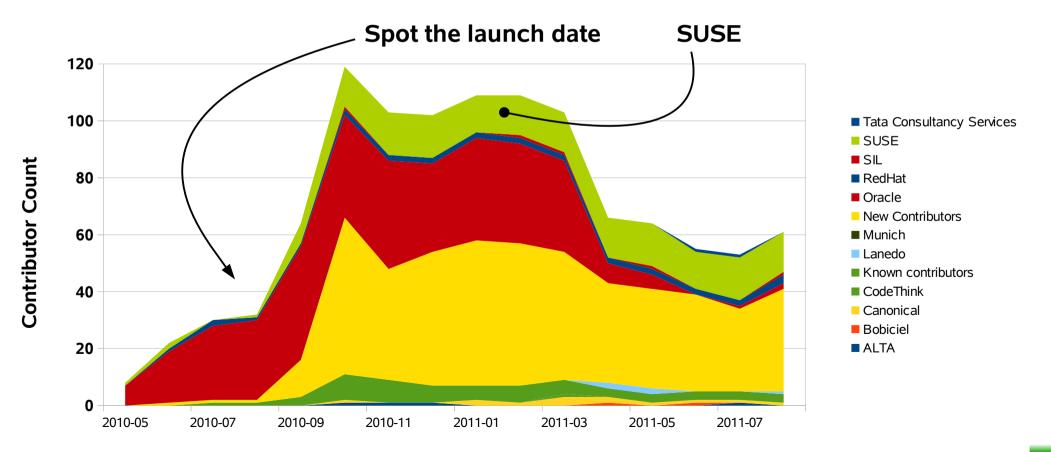
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 Styles are a wonderful, clean way of document markup

 Getting a title page and correct numbering right, was a top writer UI disaster – but then ...

~12 months in: how is it going ? - quite well

- ~220 entirely new code contributors with included patches
- ~260 active translators, for ~100 languages (in Pootle)
- Two stable branches: 3.3.4 and 3.4.3 9 stable releases in ~12 months
 - Development continues apace: 3.5.0 due early Feb 2012



What are the others doing ? an update

- Oracle + IBM: OpenOffice.org \rightarrow Apache
- Apache: (a reasonable home for new projects ...)
 - 2011-06-01 "Oracle + IBM announce formation of Apache OO.o"
 - 2011-07-14 "IBM Donates Lotus Symphony Source Code to the Apache OpenOffice Project" (but no code to go with announcement, and still none)
 - **1** 2011-08-16 Rob Weir checks in a snapshot of OO.o's 3.4 Beta 1 repository
 - 2011-09-14 since start:
 - **~80 code** commits from **4 developers**: erack, mbauer, mst, rcweir
- **Today**:
 - mailing list / web-site up / intense discussion ...
 - 70+ committers, some of whom have written code.
 - re-write copy-left bits, svn not git, abandon freedom lovers, reply-to-mangling, submit to 'mentoring' etc.
 - Copy-left licenses 'force' people to contribute ? ... or do they ?
- cf. the last ~month @ LibreOffice: ~1380 code commits, ~70 developers



What's new in 3.4 (latest stable)

A tiny sampling of a big set of improvements ... that are LibreOffice specific.

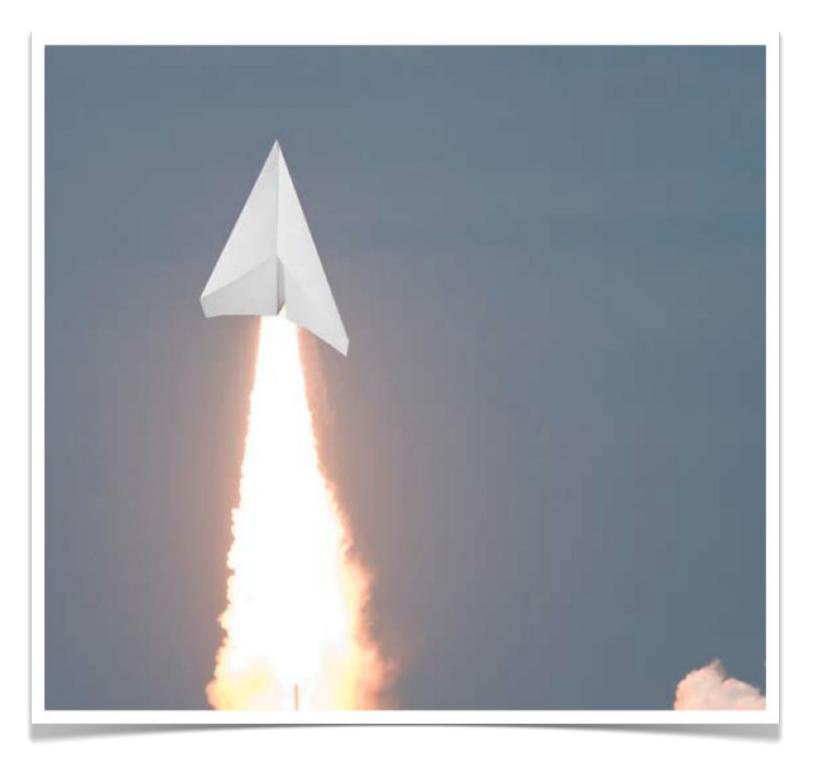
.po based translation & pootle

- Yet smaller (minus 30Mb) downloads (Kálmán "KAMI" Szalai)
- Prettier document surround shadows (Sébastien Le Ray)
- Graphite2 smart font rendering (Keith Stribley)
- Many calc improvements (mostly Kohei Yoshida)
 - external reference handling, move/copy/sheet dlg (*Joost Eekhoorn, Christoph Noack*), autofilter per sheet (*Markus Mohrhard*), sheet local named ranges, multiple subtotal ranges, OLE2 links, many DataPilot fixes, precision drawing objects (*Caolán McNamara*)
- Improved slide / HTML export (*Julien Nabet*)
- Unity / menu integration (CodeThink for Canonical: Alberto Ruiz)
- High-speed (C++) flat-ODF support (*Peter Jentsch*)
- Improved native theme integration (Lucas Baudin)
- Bug fixing and dead code removal and much more (Takeshi Abe)
- Lari (ldi), Mbochi (mdw), Teke-Ibali (tek), Teke-Tyee (tyx), and Vili (vif) languages (Republic of Congo)

What's new in 3.4 (latest stable) #2 ...

A tiny sampling of a big set of improvements ... that are LibreOffice specific.

- Remove export from binfilter (*Pierre-André Jacquod*)
- Nicer mozilla-like ctrl-f 'Find' dialog (Jan Holesovsky)
- Color Chart editing (Rob Snelders)
- Rotate through case changes (Bálint Dózsa)
- Smoother splash/startup/2nd start on Linux (Michael Meeks)
- Cleanup inefficient accessible theming (Chris 'mordocai' Carpenter, Sebastian Spaeth)
- Remove 150 duplicated redundant 'missing icon' icons to reduce bloat (*Joachim Trémouroux, Andrew C. E. Dent*)
- Remove 624 localized palette files: localize at run-time (Andras Timar)
- Bin compatibility layer for old Windows 9x non-unicode APIs (Jesús Corrius)
- Cleanup to use STL and boost containers. (Joseph Powers, Rafael Dominguez)
- Thousand of incorrectly 'executable' files fixed (*Francisco Saito*)
- Thousands of lines of dead code removed [Writer/Calc/Impress] (Kayo Hamid)
- Apologies to many more that I omitted for reasons of space etc.



BUT ! - LibreOffice needs your help ...

We can't do this alone ... there is lots to do

What are we doing ? #2

Making it easy to contribute: we welcome change ...

- Google search: libreoffice easy hacks
- Post a patch to our (open) mailing list and discuss it
- Creating unit tests (run during build)
- Removing deprecated cruft:
 - VOS library (deprecated for a decade), OS/2 support, use c++ templates not macros, cppcheck bug fixing etc.
 - wasting fewer resources: icons duplication etc.
- ~done merging outstanding vendor patch-sets
- Smaller, faster release process:
 - A single 180Mb download (for Windows) with all langs
 - plus on-line help, (in place of a copy per lang)

An example in practise ...

John Lee Castle

- arrives on list to help debug a (star)basic crash
- 2 days later first set of 'warning' patches merged
- Sadly beaten to the word-count feature, but ...
- digs in bugzilla to find & 1 week later fixes Issue 76852:

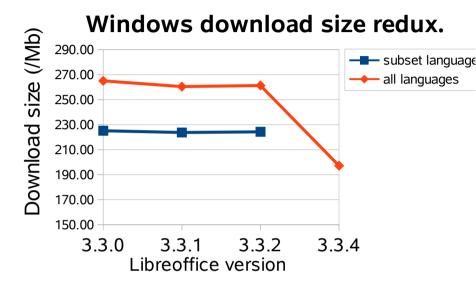
```
Opened: Wed May 2 12:28:00 +0000 2007
Run this Basic macro:
Dim s as single
s = 999999 A A one line fix !
Print s ' display : 999999
s = s+1
Print s ' display : 1 ***** incorrect ***
s = s+1
Print s ' display : 1.000001E6
```

Are you: A user ? how to be a contributing user:

- File helpful bugs
 - Clear description vs. it doesn't work
 - We have to *find* the feature ourselves
 - Minimal sample documents: should exist
 - ie. what is the smallest possible bug document
- Bug triage hunting duplicates, testing 'bad' bugs
 - Help us out we have some wonderful QA guys Monthly Bug Days
- Walking on the wild-side ...
 - testing daily builds of master ...
 - testing stable release candidates 1 week ahead ...

Can you: mirror / translate ...

- Mirrors: always room for more...
 - mirrors@documentfoundation.org
 - We are small: ~5Gb per release vs. 76Gb
 - and getting smaller
 - free up 70Gb on your server ?
 - We use (the excellent) mirrorbrain
- Translators: I10n@libreoffice.org
 - we have a no-language-favoritism policy
 - we bundle all active and completeish translations
 - quick release: see the result of your labour in your own lifetime



Something special for German speakers ...

For Germans ... (even with no prior programming experience)

- We have major source code translation problems
- Fantastic "German comment detector" from Miklos
 - Re-uses existing LO code for language detection :-)

Are you German ? can you read this ? => we need your skills !

// CebIT Hack – muss noch optimiert werden! // Wenn Sie das lesen koennen, dann haben Sie eine Waschmachine gewonnen! // Alles hat ein ende, nur die wurst hat zwei – cf. impl_getMehrWurst

// Manta-Hack:

Can you: hack ? libreoffice@lists.freedesktop.org

- Ultra elite progamming skill not necessary
 - Plenty of entry level problems; cf. Easy Hacks page
- A language you can help with is there:
 - C, C++, Java, Python, Perl, Basic, shell, XSLT, Web ...
- Tons of new simple tasks, and heavy lifting too
- Lots of easy hacks: (a tiny sample):
 - porting from Java \rightarrow python and Java \rightarrow C++
 - kill 3 of 4 duplicate base64 impls.
 - remove dead / un-called code
 - fix cppcheck warnings
 - remove obsolete macros
 - run cut+paste code detector

- remove thousands of multisecond sleeps from QA tooling
- help thread the spreadsheet recalculation engine
- write unit tests
- stop battery sapping timer leaks
- improve localisation tooling



The next release: 3.5 ...



A roadmap to the future ...

- A time based, six-monthly release train ...
 - synchronized with the Linux distributions cadence
 - ie. a normal Free Software project
 - rapid fire, (monthly) bug-fix release on stable branch

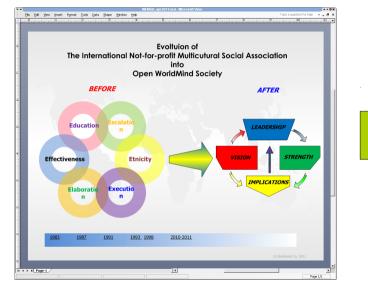
LibreOffice Releases

By using a time-based release schedule and maintaining two parallel branches, LibreOffice will always be available both for early adopters and conservative users, with the most appropriate version for each group's specific needs and habits.

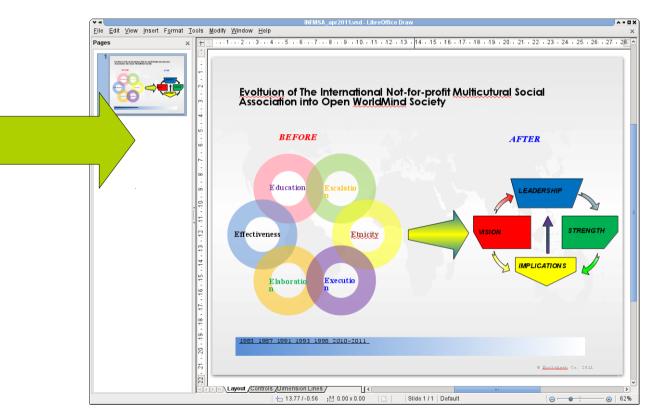
3.3 Family	3.3.2		3.3.3			3.3.4					
3.4 Family		3.4.0		3.4.1	3.4.2		3.4.3		3.4.4		
3.5 Family								3.5.0		3.5.1	3.5.2
Developers daily snapshots of master / self-built versions											
Bleeding Edge	3.3.2	3.4.0		3.4.1 3.4.2			3.4.3	3.5.0		3.5.1	
Stable		3.3.3				4.2			3.4.4	3.5.1	3.5.2
Very Stable	3.3.2		3.3.3				3.4.3		3.4.4		
Rock Solid					3.3.3	3.3.4			3.4.4		3.4.4

Visio Import filter ... (GSOC: Tibby Lickle + Strba)

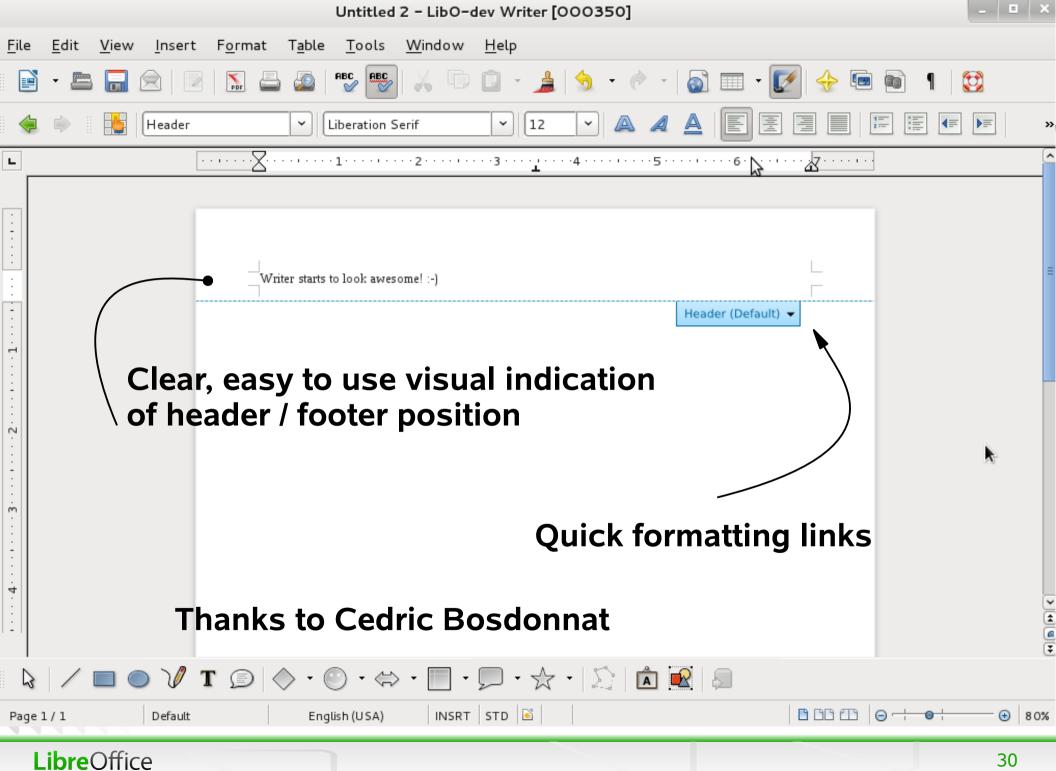
LibreOffice draw / impress etc.



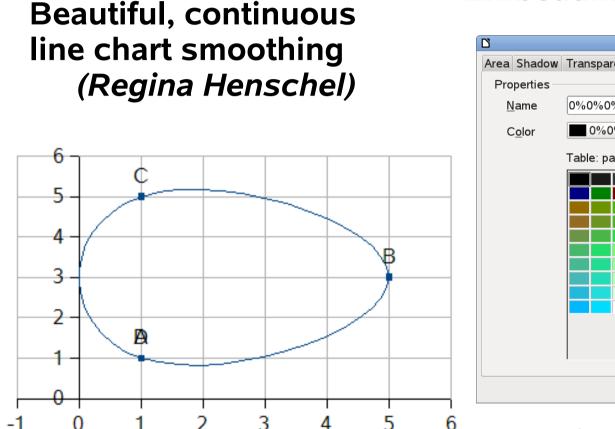
MS Visio



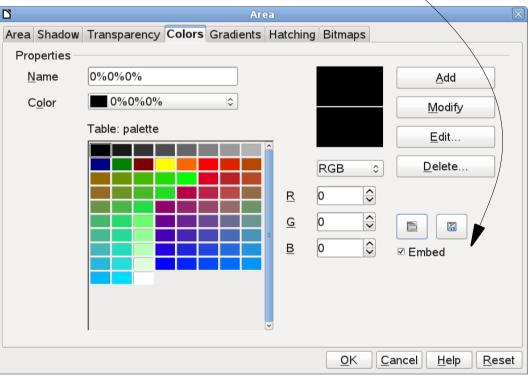
A side-effect: converts Visio files to ODF ...



Charting + Impressing ...



Embedding palettes etc. in ODP



Thanks to Karlin Stokes' input

And much more ... (just a taste) ...

Misc.

- New Persian + Arabic numbering types + fixes.
- RTF import re-write & improvement (Miklos Vajna)
- **¬** Wizards: Java \rightarrow Python (GSOC: Xisco Fauli + Bjoern)
- iPhone / Android cross-compilation infrastructure (Tor)
- Quality Improvements
 - Daily windows tinderbox + testing / one-git migration helps
 - During-build unit testing
 - Security fuzzing ++ dozens of fixes (Marc-Andre Laverdiere)
 - Debugging beautiful python annotation / string printing etc.
- Performance
 - Link time optimization & merged builling
 - Tons of spreadsheet performance improvement



WebOffice suites ...



Give up now !?!?? – the web will swallow us all ...

The proliferation of web developers is amazing:

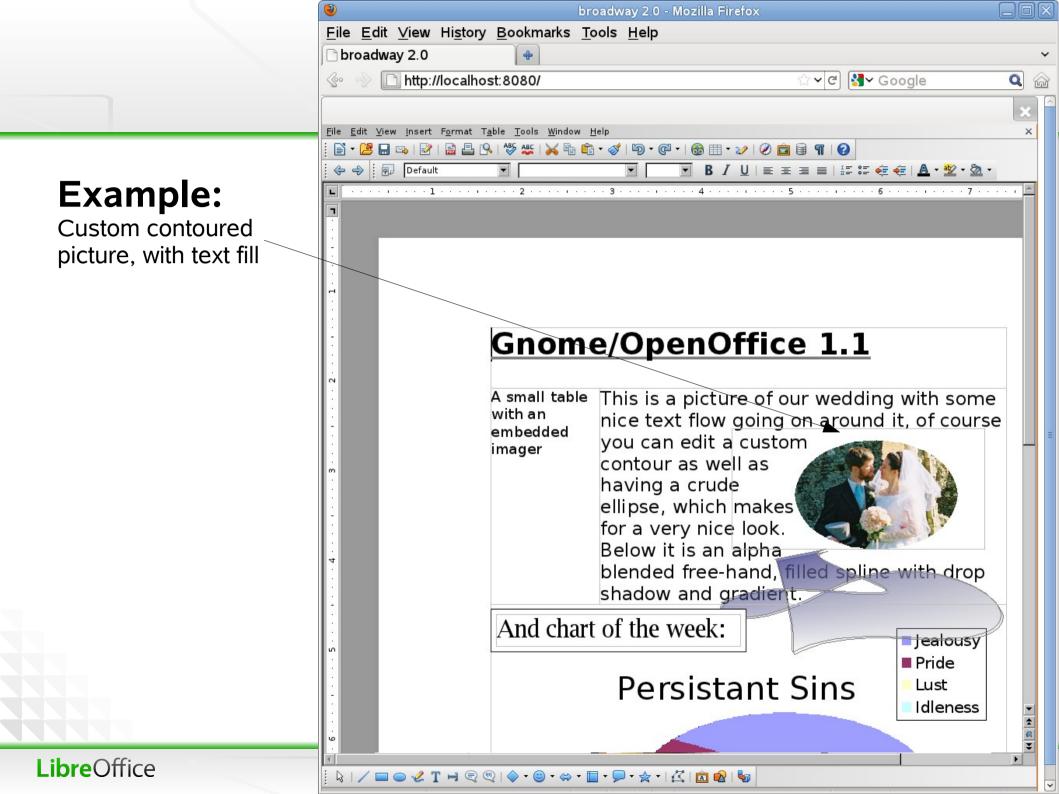
- full function off-line == re-write all in Javascript
 - Best of luck with this project: 8 million lines later
- eg. Conference WiFi & 3G is extremely cluttered
 - I would like to show you these slides today
 - but they are on a server I can't get to, no DNS, no signal, no ...
- Rent vs. Buy cloudness ? Buy Furcate, Rent Collectors ?
- MS Office 365 down for a day in US in <6 months</p>
- My Phone is an 80's super-computer anyway ...

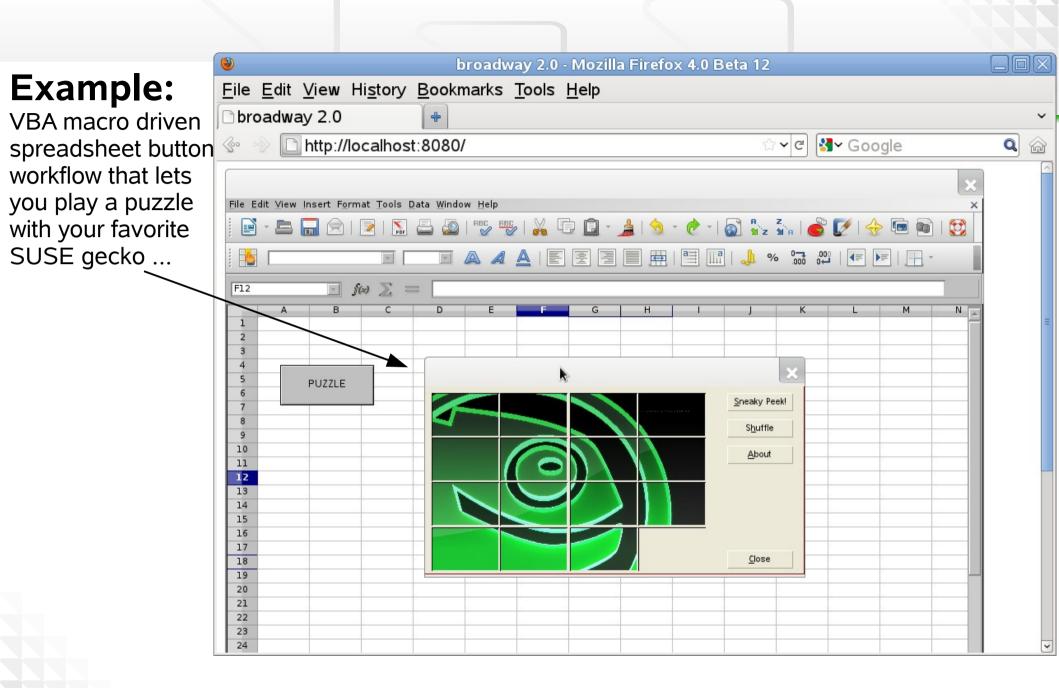
seen my vt220 app ?

- WYSIWYG, page layout ~impossible in a CSS world
 - HTML5 / the Canvas may change this ... VNC/web etc.

Cloud Office / HTML5 prototype ...

- Uses gtk+ 3's / broadway backend to render (via some javascript shims) in the browser:
 - All intelligence and rendering on the 'server' app.
- Still a prototype, rendering performance improving
- This approach allows a full-feature experience
 - ie. complex text-layout, large, complex spreadsheets, WYSIWYG (eg. edit your footnotes on the page), VBA macros, Pivot Tables etc.
- Also a number of challenges:
 - Lots of missing pieces in Web APIs that need work ...
 - Printing, scanning, file management, etc. etc.





What we're working on now:

- Waiting to mentor you (yes you ;-)
- Bug fixing & Polish
 - gnu-make completion & cross-compile for Windows
 - new features: SmartArt, improved interop, layout
 - ▼ bottom up ... clean code → clean UI → features
- Governance:
 - Incorporation raised Eur100k for foundation
 - http://wiki.documentfoundation.org/CommunityBylaws
 - 130+ Memberships bootstrapped, ESC / MC setup, etc.
 - Conference a Paris: 12th 15th October ...
 - SUSE funding via Advisory Board seat + Hackers ...
 - Elections to Board coming soon ...



Conclusions ...



LibreOffice conclusions ...

- We Aspire to a big, diverse, fun, vigorous, vendor neutral, Linux (kernel) like community ...
- Web Office very early fun for the family ...
- Strike a dis-proportionate blow for freedom
 - LibreOffice will have a hundred million users
 - get people excited about Free Software they use ...
 - Try an 'Easy Hack' get stuck to the tar-baby ...
- Thanks for all of your help and support !

we rely on you, to prove the power and wisdom of Free Software with us.

Oh, that my words were recorded, that they were written on a scroll, that they were inscribed with an iron tool on lead, or engraved in rock for ever! I know that my Redeemer lives, and that in the end he will stand upon the earth. And though this body has been destroyed yet in my flesh I will see God, I myself will see him, with my own eyes - I and not another. How my heart yearns within me. - Job 19: 23-27

LibreOffice

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